

FILE 'HCAPLUS' ENTERED AT 15:30:00 ON 14 DEC 2009

L1 24586 S GUAR OR GALACTOMANNAN OR GALACTAN OR MANNAN OR OLIGOMANNOSE O  
L2 67887 S PROANTHOCYANIDIN OR LACTOFERRIN OR LINOLEIC OR LINOLENIC  
L3 175 S L1 AND L2  
L4 12192 S PREBIOTIC OR BIFIDO?  
L5 10 S L3 AND L4  
L6 93 S HYDROLYZED GUAR  
L7 1 S L2 AND L6  
L8 8 S L4 AND L6  
L9 7 S L8 NOT L7  
L10 201 S L2 AND L4  
L11 89 S L10 AND (PY<2004 OR AY<2004 OR PRY<2004)  
L12 698550 S FIBER OR GUAR OR OLIGOSACCHARIDE  
L13 6 S L11 AND L12  
L14 1 S METHYL (2A) (MANNOOLIGOSACCHARIDE OR (MANNO-OLIGOSACCHARIDE) O  
L15 1 S (METHYL OR METHYLATED OR METHYLATION) (4A) (MANNOOLIGOSACCHARI  
L16 1 S (METHYL OR METHYLATED OR METHYLATION) (4A) (MANNOOLIGOSACCHARI  
L17 192703 S ENTERAL OR ENTERIC OR INTESTINAL OR COLONIC OR DIARRHEA  
L18 148594 S PATHOGENIC OR CLOSTRIDIUM OR SALMONELLA  
L19 9330 S L17 AND L18  
L20 5 S L6 AND L19

=> file hcaplus  
COST IN U.S. DOLLARS  
SINCE FILE  
ENTRY  
TOTAL  
SESSION  
0.22  
0.22  
FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 15:30:00 ON 14 DEC 2009  
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FILE COVERS 1907 - 14 Dec 2009 VOL 151 ISS 25  
FILE LAST UPDATED: 13 Dec 2009 (20091213/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at: [www.cas.org/casinfo](http://www.cas.org/casinfo)

<http://www.cas.org/legal/info/policy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s guar or galactomannan or galactan or mannan or oligomannose or
(manno-oligosaccharide)
    13538 GUAR
    3476 GALACTOMANNAN
    2248 GALACTAN
    7616 MANNAN
    365 OLIGOMANNOSE
    2824 MANNO
34364 OLIGOSACCHARIDE
    43 MANNO-OLIGOSACCHARIDE
        (MANNO(W)OLIGOSACCHARIDE)
L1      24586 GUAR OR GALACTOMANNAN OR GALACTAN OR MANNAN OR OLIGOMANNOSE OR
        (MANNO-OLIGOSACCHARIDE)
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=> s proanthocyanidin or lactoferrin or linoleic or linolenic
      2427 PROANTHOCYANIDIN
      5962 LACTOFERRIN
      50690 LINOLEIC
      26569 LINOLENIC
L2      67887 PROANTHOCYANIDIN OR LACTOFERRIN OR LINOLEIC OR LINOLENIC

=> s 11 and 12
L3      175 L1 AND L2
```

4935 PREBIOTIC  
7786 BIFIDO?  
L4 12192 PREBIOTIC OR BIFIDO?

=> s 13 and 14  
L5 10 L3 AND L4

=> d 15 1-10 ti abs bib

L5 ANSWER 1 OF 10 HCPLUS COPYRIGHT 2009 ACS on STN  
TI Growth kinetics on oligo- and polysaccharides and promising features of  
three antioxidative potential probiotic strains  
AB The aim was to determine the antioxidative activity, glutathione production,  
acid

and bile tolerance and carbohydrate preferences of *Lactobacillus plantarum*  
*LP 1*, *Streptococcus thermophilus* *Z 57* and *Bifidobacterium lactis*  
*B 933*. The intact bacteria exhibited antioxidant capacity against  
linolenic acid and ascorbate oxidation. The antioxidative activity of  
cell-free exts. was determined by chemiluminescent assay and agreed with total  
glutathione content. Superoxide dismutase was negligible in all the  
strains. Bile and gastric juice resistance was tested in vitro to estimate  
the transit tolerance in the upper gastrointestinal tract.  
*Bifidobacterium lactis* *B 933* and *L. plantarum* *LP 1* were more acid  
tolerant than *S. thermophilus* *Z 57*. All the strains were resistant to  
bile. Among 13 indigestible carbohydrates, galacto-oligosaccharides and  
fructo-oligosaccharides were utilized by all the strains and did not  
affect survival in human gastric juice. These potential probiotic strains  
exhibited antioxidative properties and good viability in gastric juice and  
bile may indicate tolerance to the transit through the upper  
gastrointestinal tract. Galacto-oligosaccharides and  
fructo-oligosaccharides are the most appropriate prebiotics to be used in  
effective symbiotic formulations. These results outline promising strains  
with antioxidative properties. Carbohydrate preferences can be exploited  
in order to develop symbiotic products.

AN 2008:1489172 HCPLUS <<LOGINID::20091214>>

DN 151:192710

TI Growth kinetics on oligo- and polysaccharides and promising features of  
three antioxidative potential probiotic strains

AU Zanoni, S.; Pompei, A.; Cordisco, L.; Amaretti, A.; Rossi, M.; Matteuzzi,  
D.

CS Department of Pharmaceutical Sciences, University of Bologna, Bologna,  
Italy

SO Journal of Applied Microbiology (2008), 105(5), 1266-1276

CODEN: JAMIFK; ISSN: 1364-5072

PB Wiley-Blackwell

DT Journal

LA English

RE.CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 10 HCPLUS COPYRIGHT 2009 ACS on STN

TI Infant foods with optimized amino acid composition for improved cognition.

AB The invention relates to food compns., such as infant food and dietary  
supplements for children, especially foods which have favorable effects on  
cognitive skills. The invention provides a method for selecting an infant  
food which contributes to the development and/or use of the cognitive  
skills of a child, comprising determining the age of the child and selecting a  
food optimal for that age, wherein, for an age of 1 yr at most, an infant  
food with a tryptophan:tyrosine ratio based on weight (T/T ratio) of  $\geq$   
0.3 is selected and wherein, for an age from 1 yr, an infant food with a  
T/T ratio  $< 0.3$  is selected.

AN 2008:1106125 HCAPLUS <>LOGINID::20091214>>  
DN 149:330962  
TI Infant foods with optimized amino acid composition for improved cognition.  
IN Glas, Cornelis; Schaafsma, Anne  
PA Friesland Brands B.V., Neth.  
SO PCT Int. Appl., 23pp.  
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008108651	A1	20080912	WO 2008-NL50133	20080307
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	NL 1033521	C2	20080909	NL 2007-1033521	20070308
PRAI	NL 2007-1033521	A	20070308		
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

LS5 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Lacteal coated pizzas

AB Lacteal coated pizzas are comprised of soft leaven dough/sourdough topped with a nutritious lacteal batter and a conventional topping. The lacteal batters are heat-stable, hydrocolloid-protein mixts. that possess unique performance-enhancing, rheol. properties. Thus, the lacteal batter comprises agglomerated (denatured) casein micelles, whey, and gluten, plus a lipid-in-starch emulsion that acts as a hydrocolloidal thickener and stabilizer.

AN 2008:474305 HCAPLUS <>LOGINID::20091214>>

DN 148:448473

TI Lacteal coated pizzas

IN Grigg, Louise J.; Jonsan, John

PA Body Structures, Inc., USA

SO U.S. Pat. Appl. Publ., 42 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20080089978	A1	20080417	US 2006-309851	20061013
PRAI	US 2006-309851		20061013		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

LS5 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Method for manufacturing lactic acid bacteria-unsaturated fatty acid microcapsule-krill powder, and spices containing the powder

AB A method for manufacturing spices containing krill powder comprises: (1) mixing carbohydrate, protein, thickener and water to obtain micro-coating material, (2) mixing emulsifier and hardened oil, heating, adding lactic

acid bacteria and unsatd. fatty acid, and homogenizing to obtain capsule material, (3) mixing the micro-coating material and the capsule material in presence of emulsifier, and homogenizing to obtain gelatinized solution, (4) spraying the gelatinized solution to cooling water to obtain microcapsule, and (5) mixing the microcapsule and krill powder as stabilizer, and preparing into powder to obtain the final product. The powder and spices containing the powder have long shelf time over 12 months, and lactic acid bacteria and unsatd. fatty acid are stable.

AN 2008:25236 HCAPLUS <>LOGINID::20091214>

DN 148:143537

TI Method for manufacturing lactic acid bacteria-unsaturated fatty acid microcapsule-krill powder, and spices containing the powder

IN Shin, Hong Sik; Park, Si Ho; Kim, Hui Jeong; Choi, Yun Hwa; Shin, Cheol Ho; Kim, Jun Tae

PA Chebigen Co., Ltd., S. Korea

SO Repub. Korea, 10pp.

CODEN: KRXXFC

DT Patent

LA Korean

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI KR 777210	B1	20071128	KR 2006-48084	20060529
PRAI KR 2006-48084			20060529	

L5 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Method for manufacturing multi-microcapsules of lactic acid bacteria, the manufactured microcapsules, and product containing the microcapsules

AB A method for manufacturing multi-microcapsules of lactic acid bacteria comprises

the steps of: (1) processing one of whey powder, low-fat skim milk powder, glucose and bactotryptone, glycerin, and medium solution into a sterilized paste, adding lactic acid bacteria, and homogenizing to obtain a first coating material, (2) mixing with recombinant milk, polyglycerin fatty acid ester and glycerin succinate fatty acid ester, and homogenizing to obtain a second coating material, and (3) mixing carbohydrate, protein components, a thickening agent and an emulsifying agent, homogenizing, adding the second coating material, homogenizing to obtain a third coating material, and spraying into sterilized cooling water. The invention also discloses the manufactured microcapsules, and a product containing the microcapsules. The viable lactic acid bacteria number of the microcapsules can be maintained at >108CFU/mL at 4° for longer than 3 mo.

AN 2008:4604 HCAPLUS <>LOGINID::20091214>

DN 148:120678

TI Method for manufacturing multi-microcapsules of lactic acid bacteria, the manufactured microcapsules, and product containing the microcapsules

IN Shin, Hong Sik; Park, Si Ho; Eom, Su Jong; Kim, Hui Jeong; Jin, Ha Ryong; Lee, Jong Hyeon; Kim, Hyoeng Su; Park, Jong Mi; Lee, A. Reum

PA Chebigen Co., Ltd., S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, 23pp.

CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI KR 2007104140	A	20071025	KR 2006-36360	20060421
KR 782984	B1	20071207		
PRAI KR 2006-36360			20060421	

L5 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Metallo-lactoferrin-coenzyme compositions for trigger and release of bioenergy  
 AB Formulations are provided for the trigger and release of bioenergy. The formulations generally include a trigger complex, an elemental complex and a coenzyme-vitamin B complex. The trigger complex is high in fiber and includes at least one metal-binding protein in an alkaline buffer system. The elemental complex includes one or more trace element as a suitable salt. The coenzyme-vitamin B complex includes one or more coenzyme, coenzyme precursor and/or B-vitamin. The compns. can be administered orally in a variety of forms. A formulation for diabetes control contained elemental complex 0.1, coenzyme complex 0.1, trigger complex 11.2, functional ingredients 10.4, and excipients 78.2%.  
 AN 2006:1256671 HCAPLUS <>LOGINID::20091214>>  
 DN 146:33048  
 TI Metallo-lactoferrin-coenzyme compositions for trigger and release of bioenergy  
 IN Naidu, A. Satyanarayan; Naidu, A. G. Tezus; Naidu, A. G. Sreus  
 PA USA  
 SO U.S. Pat. Appl. Publ., 16pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 20060269535	A1	20061130	US 2006-442473	20060526
PRAI US 2005-686257P	P	20050531		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI High-pressure processing of bioactive compositions  
 AB Pressure treatment is used to prevent the growth of at least one unwanted microorganism while retaining desired level of activity of bioactive components. The bioactive component may include proteins, protein hydrolyzates, lipids, lipid hydrolyzates, carbohydrates, probiotic factors, or mixts. of these. The pressure treatment is at a predet. pressure of about 350 to 1000 MPa. Thus, a colostrum milk protein concentrate may be sterilized at 500 MPa for 1 min while retaining 91% IgG (vs. 2% for heat processing).

AN 2006:945472 HCAPLUS <>LOGINID::20091214>>  
 DN 145:270598  
 TI High-pressure processing of bioactive compositions  
 IN Carroll, Timothy Joseph; Patel, Hasmukh Ambalal; Gonzalez-Martin, Miguel Alejandro; Dekker, James William; Collett, Michael Anthony; Lubbers, Marc William  
 PA Fonterra Co-Operative Group Limited, N. Z.  
 SO PCT Int. Appl., 98pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006096074	A1	20060914	WO 2006-NZ39	20060308
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,				

VN, YU, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

NZ 538671 A 20090531 NZ 2005-538671 20050308  
 AU 2006221149 A1 20060914 AU 2006-221149 20060308  
 EP 1855553 A1 20071121 EP 2006-733134 20060308  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR  
 JP 2008533002 T 20080821 JP 2008-500657 20060308  
 KR 2008005199 A 20080110 KR 2007-722800 20071005  
 CN 101170918 A 20080430 CN 2006-80015799 20071108  
 US 20080317823 A1 20081225 US 2008-908106 20080206

PRAI NZ 2005-538671 A 20050308  
 NZ 2005-544408 A 20051223  
 WO 2006-NZ39 W 20060308  
 NZ 2006-547778 A3 20060608

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Composition containing fermentable polysaccharides  
 AB A nutritional composition (e.g., prebiotic polysaccharide-containing  
 infant formula) comprises 0.1-15 g fermentable partially hydrolyzed gum  
 having a degree of polymerization of 10-300/100 g dry weight of the  
 composition and  
 0.1-15 g fermentable, indigestible polysaccharide other than a hydrolyzed  
 gum having a d.p. of 10-300/100 g dry weight of the composition. Thus,  
 partially  
 hydrolyzed guar gum may be used in combination with inulin or  
 indigestible polydextrose.

AN 2006:184964 HCAPLUS <<LOGINID::20091214>>  
 DN 144:253218

TI Composition containing fermentable polysaccharides  
 IN Speelmans, Gelske; Govers, Maria Johanna Adriana P.  
 PA N.V. Nutricia, Neth.  
 SO Eur. Pat. Appl., 15 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1629727	A1	20060301	EP 2004-77393	20040824
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
AU	2005275578	A1	20060302	AU 2005-275578	20050824
CA	2578093	A1	20060302	CA 2005-2578093	20050824
WO	2006022544	A1	20060302	WO 2005-NL613	20050824
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				

IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1781117 A1 20070509 EP 2005-775174 20050824  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101043822 A 20070926 CN 2005-80035522 20050824  
US 20080280852 A1 20081113 US 2007-574120 20070827

PRAI EP 2004-77393 A 20040824  
WO 2005-NL613 W 20050824

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Continuous multi-microencapsulation process for improving the stability and storage life of biologically active ingredients in foods, cosmetics and drugs

AB Microcapsules are obtained in a continuous water-in-oil-in-water microencapsulation process through *in situ* and interfacial polymerization of the

emulsion. A formulation comprises a continuous water phase having a dispersion of microcapsules which contain oil drops and in the inside of each oil phase drop (containing optionally oil-soluble materials) there is a dispersion of water, or aqueous extract or water-dispersible material or water-soluble material. The oil drops are encapsulated with a polymerizable material of natural origin. Such microcapsules are appropriate for spray-drying, to be used as dry powder, lyophilized, self-emulsifiable powder, gel, cream, and any liquid form. The active compds. included in the microcapsules are beneficial to health and other biol. purposes. Such formulations are appropriate for incorporation in any class of food, especially for the production of nutraceuticals, as well as cosmetic products (such as rejuvenescence creams, anti-wrinkle creams, gels, bath and shower consumable products and sprays). The preps. are adequate to stabilize compds. added to food, media for cultivating microbes and nutraceuticals, especially those which are easily degradable or oxidizable.

AN 2005:564598 HCAPLUS <<LOGINID::20091214>>

DN 143:77319

TI Continuous multi-microencapsulation process for improving the stability and storage life of biologically active ingredients in foods, cosmetics and drugs

IN Casana Giner, Victor; Gimeno Sierra, Miguel; Gimeno Sierra, Barbara; Moser, Martha

PA GAT Formulation G.m.b.H., Austria

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DT Patent

LA Spanish

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005058476	A1	20050630	WO 2004-ES562	20041217
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				

EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
 MR, NE, SN, TD, TG  
 ES 2235642 A1 20050701 ES 2003-2998 20031218  
 ES 2235642 B2 20060301  
 AU 2004298792 A1 20050630 AU 2004-298792 20041217  
 CA 2550615 A1 20050630 CA 2004-2550615 20041217  
 EP 1702675 A1 20060920 EP 2004-805105 20041217  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS  
 CN 1917946 A 20070221 CN 2004-80041872 20041217  
 BR 2004017767 A 20070417 BR 2004-17767 20041217  
 JP 2007521135 T 20070802 JP 2006-544472 20041217  
 MX 2006006735 A 20070216 MX 2006-6735 20060614  
 US 20070077308 A1 20070405 US 2006-596556 20060616  
 US 20080102132 A2 20080501  
 PRAI ES 2003-2998 A 20031218  
 WO 2004-ES562 W 20041217  
 OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Dietary supplements and methods of preparing and administering dietary  
 supplements  
 AB A chewable or non-chewable, palatable and shelf stable dietary supplement  
 for animals including a carrier matrix formed of a natural substance and  
 an effective amount of a medicament intermixed with the carrier matrix is  
 disclosed. Methods for administering a medicament to an animal may  
 include forming a slurry from a natural substance; mixing an effective  
 amount of a medicament with the slurry to form a mixture; pouring the mixture  
 into a mold; freezing the mixture to form a frozen mixture; drying the frozen  
 mixture to form a freeze-dried dietary supplement; and administering the  
 dietary supplement to an animal. Methods for preparing a dietary supplement  
 may include providing a natural substance to form a carrier matrix for the  
 medicament; slurrifying the natural substance to form a slurry; mixing an  
 effective amount of the medicament with the slurry to form a mixture; pouring  
 the mixture into a mold; freezing the mixture; and removing moisture from the  
 mixture to form a shelf-stable dietary supplement.  
 AN 2004:1019519 HCAPLUS <>LOGINID::20091214>>  
 DN 141:428039  
 TI Dietary supplements and methods of preparing and administering dietary  
 supplements  
 IN Finke, Mark D.  
 PA Mark D. Finke, Inc., USA  
 SO U.S. Pat. Appl. Publ., 12 pp.  
 CODEN: USXXCO

DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 20040234579	A1	20041125	US 2003-443588	20030522
WO 2004105504	A2	20041209	WO 2004-US15900	20040520
WO 2004105504	A3	20060323		
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, SL, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2003-443588 A 20030522

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

=> d hislog hold  
'HISLOG' IS NOT A VALID FORMAT FOR FILE 'HCAPLUS'  
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The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data and PI table (default)  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
CLASS ----- IPC, NCL, ECLA, FTERM  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
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PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
STD ----- BIB, CLASS  
  
IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
containing hit terms  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields

KWIC ----- Hit term plus 20 words on either side  
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):ti

L5 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Growth kinetics on oligo- and polysaccharides and promising features of  
three antioxidative potential probiotic strains

=> d his

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L2 67887 S PROANTHOCYANIDIN OR LACTOFERRIN OR LINOLEIC OR LINOLENIC  
L3 175 S L1 AND L2  
L4 12192 S PREBIOTIC OR BIFIDO?  
L5 10 S L3 AND L4

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FULL ESTIMATED COST 36.08 36.30

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CA SUBSCRIBER PRICE		-8.20	-8.20

=> s hydrolyzed guar  
     153968 HYDROLYZED  
     13538 GUAR  
 L6      93 HYDROLYZED GUAR  
           (HYDROLYZED(W) GUAR)

=> s 12 and 16  
 L7      1 L2 AND L6

=> d 17 ti abs bib

L7    ANSWER 1 OF 1 HCPLUS COPYRIGHT 2009 ACS on STN  
 TI    Composition containing fermentable polysaccharides  
 AB    A nutritional composition (e.g., prebiotic polysaccharide-containing infant formula) comprises 0.1-15 g fermentable partially hydrolyzed gum having a degree of polymerization of 10-300/100 g dry weight of the composition and 0.1-15 g fermentable, indigestible polysaccharide other than a hydrolyzed gum having a d.p. of 10-300/100 g dry weight of the composition. Thus, partially hydrolyzed guar gum may be used in combination with inulin or indigestible polydextrin.

AN    2006:184964 HCPLUS <>LOGINID::20091214>>

DN    144:253218

TI    Composition containing fermentable polysaccharides  
 IN    Speelmans, Gelske; Govers, Maria Johanna Adriana P.  
 PA    N.V. Nutricia, Neth.

SO    Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT    Patent

LA    English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1629727	A1	20060301	EP 2004-77393	20040824
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AU	2005275578	A1	20060302	AU 2005-275578	20050824
CA	2578093	A1	20060302	CA 2005-2578093	20050824
WO	2006022544	A1	20060302	WO 2005-NL613	20050824
	W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP	1781117	A1	20070509	EP 2005-775174	20050824
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN	101043822	A	20070926	CN 2005-80035522	20050824
US	20080280852	A1	20081113	US 2007-574120	20070827

PRAI EP 2004-77393  
WO 2005-NL613

A 20040824  
W 20050824

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L8 8 L4 AND L6

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=> s 18 not 17  
L9 7 L8 NOT L7

=> d 19 1-7 ti abs bib

L9 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Dietary fiber formulation and method of administration  
AB A dietary fiber formulation may comprise partially hydrolyzed  
guar gum (PHGG) and fructooligosaccharides (FOS), wherein the  
dietary fiber formulation exhibits a prebiotic potential greater  
than a prebiotic potential of PHGG and FOS individually. Thus,  
after administration, a PHGG/FOS blend has a lengthened fermentation time in  
the

intestinal tract and produces a greater variety of short-chain fatty acids  
(acetate, propionate, butyrate) than would either fiber individually.

AN 2007:482861 HCAPLUS <>LOGINID::20091214>

DN 146:440734

TI Dietary fiber formulation and method of administration

IN Troup, John P.; Falk, Anne L.

PA Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

SO PCT Int. Appl., 32pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007050656	A2	20070503	WO 2006-US41568	20061023
	WO 2007050656	A3	20070712		
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	AU 2006306241	A1	20070503	AU 2006-306241	20061023
	CA 2626398	A1	20070503	CA 2006-2626398	20061023
	EP 1940243	A2	20080709	EP 2006-826605	20061023
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2009511506	T	20090319	JP 2008-534794	20061023

IN 2008DN02528	A	20080725	IN 2008-DN2528	20080326
CN 101291597	A	20081022	CN 2006-80039184	20080421
MX 2008005253	A	20080507	MX 2008-5253	20080423
PRAI US 2005-729767P	P	20051024		
US 2005-742124P	P	20051202		
WO 2006-US41568	W	20061023		

L9 ANSWER 2 OF 7 HCPLUS COPYRIGHT 2009 ACS on STN  
 TI Physiological functions of partially hydrolyzed guar gum

AB A review. Partially hydrolyzed guar gum (PHGG) has a number of properties associated with dietary fiber. PHGG ingestion results in not only an increase in defecating frequency and softer stools in persons with constipation but also significantly improvement of diarrhea in patient with gastrointestinal intolerance. The lowering of fecal pH by intake of PHGG resulted in the growth of *Lactobacillus* spp. and *Bifidobacterium* spp., intestinal flora good for human health. Improvement of balance of intestinal microflora resulted in prevention from infection and colonization of *Salmonella enteritidis*. Further the ingestion of PHGG promoted absorption of mineral and lowered serum cholesterol and triglycerides in the rat and serum cholesterol in human by improving lipid metabolism without reduction of protein utilization. In addition,

PHGG significantly reduced the level of plasma glucose, and thereby improved acute postprandial plasma glucose and insulin response. All these observations suggest that the PHGG is prospective one of dietary fiber with various biol. functions.

AN 2006:1346229 HCPLUS <>LOGINID::20091214>>  
 DN 146:120942

TI Physiological functions of partially hydrolyzed guar gum

AU Yoon, Seon-Joo; Chu, Djong-Chi; Juneja, Lekh Raj  
 CS Department of Pathobiology, University of Washington, Seattle, WA, 98195, USA

SO Journal of Clinical Biochemistry and Nutrition (2006), 39(3), 134-144  
 CODEN: JCBNER; ISSN: 0912-0009

PB Japanese Society of Clinical Nutrition

DT Journal; General Review

LA English

RE.CNT 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 7 HCPLUS COPYRIGHT 2009 ACS on STN  
 TI Role of partially hydrolyzed guar gum in the treatment of irritable bowel syndrome

AB A review. Irritable bowel syndrome (IBS) is the world's most common gastrointestinal functional disorder and is associated with several social and economic costs. Health-related quality of life is often impaired in patients with IBS. The pathophysiol. mechanisms underlying IBS remain poorly defined. The therapeutic approach to patients with IBS is based on symptoms, and fibers may play an important role in treatment. Among the various types of fiber, water-soluble, non-gelling fibers seem to be a promising option for treatment of IBS. Partially hydrolyzed guar gum (PHGG) is a water-soluble, non-gelling fiber that has provided therapeutic benefits. In clin. trials, PHGG decreased symptoms in constipation-predominant and diarrhea-predominant forms of IBS and decreased abdominal pain. Further, an improvement in quality of life was observed in patients with IBS during and after treatment with PHGG. Moreover, PHGG seems to have prebiotic properties because it increases the colonic contents of short-chain fatty acids, *Lactobacilli*, and *Bifidobacteria*.

AN 2006:178683 HCPLUS <<LOGINID::20091214>>  
DN 145:187836  
TI Role of partially hydrolyzed guar gum in the treatment  
of irritable bowel syndrome  
AU Giannini, Edoardo G.; Mansi, Carlo; Dulbecco, Pietro; Savarino, Vincenzo  
CS Gastroenterology Unit, Department of Internal Medicine, University of  
Genoa, Genoa, Italy  
SO Nutrition (New York, NY, United States) (2006), 22(3), 334-342  
CODEN: NUTRER; ISSN: 0899-9007  
PB Elsevier Inc.  
DT Journal; General Review  
LA English  
OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)  
RE.CNT 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 7 HCPLUS COPYRIGHT 2009 ACS on STN  
TI Partially hydrolyzed guar gum. Clinical nutrition uses  
AB A review is given concerning partially hydrolyzed guar  
gum that is relevant to clin. nutrition practice. Methods. All relevant  
papers published on partially hydrolyzed guar gum were  
reviewed and the results summarized. Results. Partially  
hydrolyzed guar gum (PHGG) is a water-soluble dietary fiber  
with a wide range of uses in clin. nutrition. Its low viscosity allows  
its use in enteral products and beverages. PHGG can be added to enteral  
formulas and food products as a dietary fiber source. PHGG provides the  
benefits associated with dietary fiber ingestion. Addition of PHGG to the diet  
reduced laxative dependence in a nursing home population. PHGG also  
reduced the incidence of diarrhea in septic patients receiving total  
enteral nutrition and reduced symptoms of irritable bowel syndrome. PHGG  
also increased production of Bifidobacterium in the gut.  
Conclusion. The ease of use of PHGG and its clin. effectiveness make it a  
good choice in clin. nutrition practice.  
AN 2003:415664 HCPLUS <<LOGINID::20091214>>  
DN 139:229794  
TI Partially hydrolyzed guar gum. Clinical nutrition uses  
AU Slavin, Joanne L.; Greenberg, Norman A.  
CS Department of Food Science and Nutrition, University of Minnesota, St.  
Paul, MN, USA  
SO Nutrition (New York, NY, United States) (2003), 19(6), 549-552  
CODEN: NUTRER; ISSN: 0899-9007  
PB Elsevier Science Inc.  
DT Journal; General Review  
LA English  
OSC.G 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)  
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 7 HCPLUS COPYRIGHT 2009 ACS on STN  
TI The prebiotic effects of biscuits containing partially  
hydrolysed guar gum and fructo-oligosaccharides - a human volunteer study  
AB Prebiotics are nondigestible food ingredients that target selected groups  
of human colonic microflora, thus altering the microbial composition in a more  
beneficial way by increasing the populations of bifidobacteria  
and/or lactobacilli. The prebiotic potential of partially  
hydrolyzed guar gum (PHGG) and fructooligosaccharides  
(FOS) contained in biscuits was assessed in 31 humans. Fluorescent in  
situ hybridization with oligonucleotide probes targeting *Bacteroides*,  
*Bifidobacterium*, *Clostridium*, and *Lactobacillus-Enterococcus* spp.  
was used for bacterial identification and the total bacteria were  
enumerated using the 4',6-diamidino-2-phenylindole fluorescent staining.

The subjects consumed daily 3 biscuits (providing 6.6 g FOS and 3.4 g PHGG) or 3 placebo biscuits in two 21-day crossover periods. The Bifidobacteria counts increased after ingestion of the exptl. biscuits compared with placebo. The Bifidobacteria counts returned to pretreatment levels within 7 days after cessation of the exptl. biscuits intake. A correlation was found between the initial fecal Bifidobacteria counts and the magnitude of bifidogenesis ; subjects with low initial Bifidobacteria counts experienced the greatest increase in bifidogenesis. No changes were observed in the other bacterial groups monitored. Thus, the prebiotic nature of FOS and PHGG was maintained in the final biscuit food product as evidenced from the selective increase in Bifidobacteria counts.

AN 2001:756726 HCAPLUS <>LOGINID::20091214>>

DN 136:36823

TI The prebiotic effects of biscuits containing partially hydrolysed guar gum and fructo-oligosaccharides - a human volunteer study

AU Tuohy, K. M.; Kolida, S.; Lustenberger, A. M.; Gibson, G. R.

CS Food Microbial Sciences Unit, School of Food Biosciences, University of Reading, Reading, RG6 6AP, UK

SO British Journal of Nutrition (2001), 86(3), 341-348

CODEN: BJNUAV; ISSN: 0007-1145

PB CABI Publishing

DT Journal

LA English

OSC.G 75 THERE ARE 75 CAPLUS RECORDS THAT CITE THIS RECORD (75 CITINGS)

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Preventive effect of partially hydrolyzed guar gum on infection of *Salmonella enteritidis* in young and laying hens

AB The preventive effect of partially hydrolyzed guar gum (PHGG) on the colonization of *Salmonella enteritidis* (SE) in young and laying hens was investigated. The effects of feed supplemented with 0.025, 0.05, and 0.1% PHGG was examined on young hens orally infected with SE. The incidence of SE in organs was decreased, the excretion of SE into feces was increased, and the agglutinating antibody titer to SE in serum was decreased by the administration of PHGG to young hens. In particular, feed supplemented with 0.025% PHGG was the most effective. It was also shown that feed supplemented with 0.025% PHGG increased the number of *Bifidobacterium* spp. and *Lactobacillus* spp., the most numerous intestinal bacteria in the cecum of young hen. The effect of the excretion of SE via feces was also observed in an experiment using laying hens. The incidence of SE on the surface of the eggshell and in egg white and egg yolk was also decreased when the feed of laying hens was supplemented with 0.025% PHGG. These results show that the administration of feed supplemented with PHGG can prevent the colonization of SE in young and laying hens, which, in turn, could be related to improvement in the balance of intestinal microflora.

AN 2000:370967 HCAPLUS <>LOGINID::20091214>>

DN 133:163623

TI Preventive effect of partially hydrolyzed guar gum on infection of *Salmonella enteritidis* in young and laying hens

AU Ishihara, N.; Chu, D.-C.; Akachi, S.; Juneja, L. R.

CS Nutritional Foods Division, Taiyo Kagaku Co., Ltd., Mie, 510-0844, Japan

SO Poultry Science (2000), 79(5), 689-697

CODEN: POSCAL; ISSN: 0032-5791

PB Poultry Science Association, Inc.

DT Journal

LA English

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Effects of partially hydrolyzed guar gum intake on  
human intestinal microflora and its metabolism  
AB The growth responses of a variety of human intestinal bacteria to  
partially hydrolyzed guar gum (PHGG) were investigated  
in vitro and in vivo. In an in vitro experiment, PHGG moderately enhanced  
growth of some bacterial strains including *Bacteroides ovatus*, *Clostridium coccooides*, *C. butyricum*, and *Peptostreptococcus productus*. Effects of  
PHGG intake (7 g/volunteer, 3 times per day, for 14 days) on fecal  
microflora, bacterial metabolites, and pH were investigated using nine  
healthy human volunteers. The count of *Bifidobacterium* spp. and  
the percentage of these species in the total count increased significantly  
during the PHGG intake periods. Among the acid-forming bacteria,  
*Lactobacillus* spp. also increased. The fecal pH and fecal bacterial  
metabolites such as  $\beta$ -glucuronidase activity, putrefactive products,  
and ammonia content were significantly decreased by PHGG intake. Two  
weeks after the end of PHGG intake, the bacterial counts and their biol.  
manifestations appeared to return to the former state.  
AN 1994:578462 HCAPLUS <<LOGINID::20091214>>  
DN 121:178462  
OREF 121:32403a,32406a  
TI Effects of partially hydrolyzed guar gum intake on  
human intestinal microflora and its metabolism  
AU Okubo, Tsutomu; Ishihara, Noriyuki; Takahashi, Hidehisa; Fujisawa,  
Tomohiko; Kim, Mujo; Yamamoto, Takehiko; Mitsuoka, Tomotari  
CS Cent. Res. Lab., Taiyo Kagaku Co., Ltd., Yokkaichi, 510, Japan  
SO Bioscience, Biotechnology, and Biochemistry (1994), 58(8), 1364-9  
CODEN: BBBIEJ; ISSN: 0916-8451  
DT Journal  
LA English  
OSC.G 42 THERE ARE 42 CAPLUS RECORDS THAT CITE THIS RECORD (42 CITINGS)

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L2 67887 S PROANTHOCYANIDIN OR LACTOFERRIN OR LINOLEIC OR LINOLENIC  
L3 175 S L1 AND L2  
L4 12192 S PREBIOTIC OR BIFIDO?  
L5 10 S L3 AND L4  
L6 93 S HYDROLYZED GUAR  
L7 1 S L2 AND L6  
L8 8 S L4 AND L6  
L9 7 S L8 NOT L7

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PASSWORD:

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4828829 AY<2004  
4302407 PRY<2004  
L11 89 L10 AND (PY<2004 OR AY<2004 OR PRY<2004)

=> s fiber or guar or oligosaccharide  
652577 FIBER  
13538 GUAR  
34364 OLIGOSACCHARIDE  
L12 698550 FIBER OR GUAR OR OLIGOSACCHARIDE

=> s 111 and 112  
L13 6 L11 AND L12

=> d 113 1-6 ti abs bib

L13 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Continuous multi-microencapsulation process for improving the stability  
and storage life of biologically active ingredients in foods, cosmetics  
and drugs  
AB Microcapsules are obtained in a continuous water-in-oil-in-water  
microencapsulation process through in situ and interfacial polymerization of  
the emulsion. A formulation comprises a continuous water phase having a  
dispersion of microcapsules which contain oil drops and in the inside of  
each oil phase drop (containing optionally oil-soluble materials) there is a  
dispersion of water, or aqueous extract or water-dispersible material or  
water-soluble material. The oil drops are encapsulated with a polymerizable  
material of natural origin. Such microcapsules are appropriate for  
spray-drying, to be used as dry powder, lyophilized, self-emulsifiable  
powder, gel, cream, and any liquid form. The active compds. included in the  
microcapsules are beneficial to health and other biol. purposes. Such

formulations are appropriate for incorporation in any class of food, especially for the production of nutraceuticals, as well as cosmetic products (such as rejuvenescence creams, anti-wrinkle creams, gels, bath and shower consumable products and sprays). The preps. are adequate to stabilize compds. added to food, media for cultivating microbes and nutraceuticals, especially those which are easily degradable or oxidizable.

AN 2005:564598 HCAPLUS <>LOGINID::20091214>>

DN 143:77319

TI Continuous multi-microencapsulation process for improving the stability and storage life of biologically active ingredients in foods, cosmetics and drugs

IN Casana Giner, Victor; Gimeno Sierra, Miguel; Gimeno Sierra, Barbara; Moser, Martha

PA GAT Formulation G.m.b.H., Austria

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DT Patent

LA Spanish

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005058476	A1	20050630	WO 2004-ES562	20041217 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
ES 2235642	A1	20050701	ES 2003-2998	20031218 <--
ES 2235642	B2	20060301		
AU 2004298792	A1	20050630	AU 2004-298792	20041217 <--
CA 2550615	A1	20050630	CA 2004-2550615	20041217 <--
EP 1702675	A1	20060920	EP 2004-805105	20041217 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1917946	A	20070221	CN 2004-80041872	20041217 <--
BR 2004017767	A	20070417	BR 2004-17767	20041217 <--
JP 2007521135	T	20070802	JP 2006-544472	20041217 <--
MX 2006006735	A	20070216	MX 2006-6735	20060614 <--
US 20070077308	A1	20070405	US 2006-596556	20060616 <--
US 20080102132	A2	20080501		
PRAI ES 2003-2998	A	20031218	<--	
WO 2004-ES562	W	20041217		

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Dietary supplements and methods of preparing and administering dietary supplements

AB A chewable or non-chewable, palatable and shelf stable dietary supplement for animals including a carrier matrix formed of a natural substance and an effective amount of a medicament intermixed with the carrier matrix is disclosed. Methods for administering a medicament to an animal may include forming a slurry from a natural substance; mixing an effective amount of a medicament with the slurry to form a mixture; pouring the mixture

into a mold; freezing the mixture to form a frozen mixture; drying the frozen mixture to form a freeze-dried dietary supplement; and administering the dietary supplement to an animal. Methods for preparing a dietary supplement may include providing a natural substance to form a carrier matrix for the medicament; slurrying the natural substance to form a slurry; mixing an effective amount of the medicament with the slurry to form a mixture; pouring the mixture into a mold; freezing the mixture; and removing moisture from the mixture to form a shelf-stable dietary supplement.

AN 2004:1019519 HCAPLUS <>LOGINID::20091214>

DN 141:428039

TI Dietary supplements and methods of preparing and administering dietary supplements

IN Finke, Mark D.

PA Mark D. Finke, Inc., USA

SO U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXXCO

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 20040234579	A1	20041125	US 2003-443588	20030522 <--
WO 2004105504	A2	20041209	WO 2004-US15900	20040520 <--
WO 2004105504	A3	20060323		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JE, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, TG, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2003-443588 A 20030522 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L13 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Foods for skin treatment

AB Title foods contain lactic acid bacteria, oligosaccharides, dietary fiber, ascorbic acid, and proanthocyanidin. Thus, powdered food containing Bifidobacterium longum, galactooligosaccharide, indigestible dextrin, ascorbic acid, and proanthocyanidin improved skin condition and alleviated constipation and fatigue in women in a synergistic manner.

AN 2003:936297 HCAPLUS <>LOGINID::20091214>

DN 139:395205

TI Foods for skin treatment

IN Takagaki, Kinya

PA Toyo Shinyaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003339353	A	20031202	JP 2002-151358	20020524 <--
PRAI JP 2002-151358		20020524		

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L13 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Cosmetic or topical compositions containing lactoferrin and  
glucan  
AB The compns., which enhances protective function and regeneration of the  
skin, contain lactoferrin and  $\beta$ -1,3-glucan. A face  
cleansing soap was prepared from lactoferrin 0.01, hydrolyzed  
yeast extract 0.01, bifidobacteria fermentation extract 0.01, DNA-K 0.01,  
fatty acid soap 98.35, Na cocoylglutamate 1.0, tetrasodium etidronate 0.2,  
squalane 0.3, carrot extract 0.05, soybean oil 0.05, and glucan  
oligosaccharide 0.01 weight%.  
AN 2003:771484 HCAPLUS <<LOGINID::20091214>>  
DN 139:280925  
TI Cosmetic or topical compositions containing lactoferrin and  
glucan  
IN Fukuda, Takeshi  
PA Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003277221	A	20031002	JP 2002-81089	20020322 <--
PRAI JP 2002-81089		20020322	<--	

L13 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Method for improving the skin and coat of pets  
AB A method for improving or maintaining the skin and coat system of a pet  
includes administering to the pet a nutritional agent which promotes the  
growth of bifido- and lactic-bacteria in its gastro-intestinal  
tract. The nutritional agent may be a prebiotic or a probiotic  
microorganism, or both. The nutritional agent may be administered  
together with a long chain fatty acid.  
AN 2001:185508 HCAPLUS <<LOGINID::20091214>>  
DN 134:192560  
TI Method for improving the skin and coat of pets  
IN Russell, Terry; Young, Linda A.  
PA Societe Des Produits Nestle S.A., Switz.; Russell, Jody  
SO PCT Int. Appl., 20 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001017365	A1	20010315	WO 2000-EP8747	20000906 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2383714	A1	20010315	CA 2000-2383714	20000906 <--
CA 2383714	C	20090512		
BR 2000013780	A	20020514	BR 2000-13780	20000906 <--

EP 1213970	A1	20020619	EP 2000-958527	20000906 <--
EP 1213970	B1	20080611		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AU 783678	B2	20051124	AU 2000-70016	20000906 <--
AT 397868	T	20080715	AT 2000-958527	20000906 <--
ES 2307531	T3	20081201	ES 2000-958527	20000906 <--
MX 2002002430	A	20020702	MX 2002-2430	20020306 <--
ZA 2002002647	A	20030704	ZA 2002-2647	20020404 <--
HK 1048232	A1	20081031	HK 2002-108938	20021209 <--
PRAI US 1999-152653P	P	19990907	<--	
WO 2000-EP8747	W	20000906	<--	

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Nutritional or pharmaceutical compositions containing iron particularly  
 assimilable by humans and organisms  
 AB The title compns. containing an iron transporter having a bifidogen  
 effect and an iron salt are disclosed. A pharmaceutical composition contained  
 ferric chloride 7, lactoferrin 10, fructo-  
 oligosaccharide 1200 mg, and excipients and fragrances q.s.  
 AN 1999:583752 HCAPLUS <>LOGINID::20091214>>  
 DN 131:189706  
 TI Nutritional or pharmaceutical compositions containing iron particularly  
 assimilable by humans and organisms  
 IN Auzerie, Jack; Berbille, Herve  
 PA Investigations Therapeutiques Essais Cliniques Services S.a r.l., Fr.  
 SO Fr. Demande, 9 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI FR 2773713	A1	19990723	FR 1998-624	19980116 <--
FR 2773713	B1	20010601		
EP 938850	A1	19990901	EP 1999-450002	19990115 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI FR 1998-624	A	19980116	<--	
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

=> d his

(FILE 'HOME' ENTERED AT 15:29:52 ON 14 DEC 2009)

FILE 'HCAPLUS' ENTERED AT 15:30:00 ON 14 DEC 2009

L1	24584 S GUAR OR GALACTOMANNAN OR GALACTAN OR MANNAN OR OLIGOMANNOSE O
L2	67887 S PROANTHOCYANIDIN OR LACTOFERRIN OR LINOLEIC OR LINOLENIC
L3	175 S L1 AND L2
L4	12192 S PREBIOTIC OR BIFIDO?
L5	10 S L3 AND L4
L6	93 S HYDROLYZED GUAR
L7	1 S L2 AND L6
L8	8 S L4 AND L6
L9	7 S L8 NOT L7
L10	201 S L2 AND L4

L11 89 S L10 AND (PY<2004 OR AY<2004 OR PRY<2004)  
L12 698550 S FIBER OR GUAR OR OLIGOSACCHARIDE  
L13 6 S L11 AND L12

=> log hold  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 89.48 89.70  
  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL  
ENTRY SESSION  
CA SUBSCRIBER PRICE -19.68 -19.68

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 15:42:55 ON 14 DEC 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTAEX01623

PASSWORD:  
\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'HCAPLUS' AT 15:49:50 ON 14 DEC 2009  
FILE 'HCAPLUS' ENTERED AT 15:49:50 ON 14 DEC 2009  
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 89.48 89.70  
  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL  
ENTRY SESSION  
CA SUBSCRIBER PRICE -19.68 -19.68

=> s methyl (2a)(mannooligosaccharide or (manno-oligosaccharide) or oligomanno or oligomannan)

1125944 METHYL  
248 MANNOOLIGOSACCHARIDE  
2824 MANNO  
34364 OLIGOSACCHARIDE  
43 MANNO-OLIGOSACCHARIDE  
(MANNO(4)OLIGOSACCHARIDE)  
0 OLIGOMANNOES  
9 OLIGOMANNAN

L14 1 METHYL (2A)(MANNOOLIGOSACCHARIDE OR (MANNO-OLIGOSACCHARIDE) OR OLIGOMANNOES OR OLIGOMANNAN)

=> s (methyl or methylated or methylation) (4a)(mannooligosaccharide or (manno-oligosaccharide) or oligomanno or oligomannan)

1125944 METHYL  
45139 METHYLATED  
107291 METHYLATION  
248 MANNOOLIGOSACCHARIDE  
2824 MANNO  
34364 OLIGOSACCHARIDE  
43 MANNO-OLIGOSACCHARIDE

(MANNO(W)OLIGOSACCHARIDE)  
0 OLIGOMANNOES  
9 OLIGOMANNAN  
L15 1 (METHYL OR METHYLATED OR METHYLATION) (4A) (MANNOOLIGOSACCHARIDE  
OR (MANNO-OLIGOSACCHARIDE) OR OLIGOMANNOES OR OLIGOMANNAN)

=> d l15 ti abs bib

L15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN  
TI Synthetic studies on cell-surface glycans. Part 12. Proton and carbon-13  
NMR spectral study of synthetic methyl D-manno-oligosaccharides  
AB 1H- and 13C-NMR spectra for 16 synthetic Me manno-oligosaccharides were  
recorded, and the signals for the anomeric protons and anomeric carbon  
atoms in branched manno-pentaosides and -hexaosides were assigned, based  
on the data for Me manno-biosides and -triosides. These NMR data  
identified the branching pattern of high-mannose types of glycans of  
glycopeptides with those of unambiguously synthesized  
manno-oligosaccharides, and confirmed the structures proposed for such  
glycans.  
AN 1982:123143 HCAPLUS <<LOGINID::20091214>>  
DN 96:123143  
OREF 96:20233a,20236a  
TI Synthetic studies on cell-surface glycans. Part 12. Proton and carbon-13  
NMR spectral study of synthetic methyl D-manno-oligosaccharides  
AU Ogawa, Tomoya; Sasajima, Kikuo  
CS Inst. Phys. Chem. Res., Wako, 351, Japan  
SO Carbohydrate Research (1981), 97(2), 205-27  
CODEN: CRBRAT; ISSN: 0008-6215  
DT Journal  
LA English  
OSC.G 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

=> s (methyl or methylated or methylation) (4a) (mannooligosaccharide or  
(manno-oligosaccharide) or oligomannose or oligomannan)  
1125944 METHYL  
45139 METHYLATED  
107291 METHYLATION  
248 MANNOOLIGOSACCHARIDE  
2824 MANNO  
34364 OLIGOSACCHARIDE  
43 MANNO-OLIGOSACCHARIDE  
(MANNO(W)OLIGOSACCHARIDE)  
365 OLIGOMANNOSE  
9 OLIGOMANNAN  
L16 1 (METHYL OR METHYLATED OR METHYLATION) (4A) (MANNOOLIGOSACCHARIDE  
OR (MANNO-OLIGOSACCHARIDE) OR OLIGOMANNOSE OR OLIGOMANNAN)

=> s enteral or enteric or intestinal or colonic or diarrhea

4860 ENTERAL  
17875 ENTERIC  
141518 INTESTINAL  
19597 COLONIC  
25501 DIARRHEA

L17 192703 ENTERAL OR ENTERIC OR INTESTINAL OR COLONIC OR DIARRHEA

=> s pathogenic or clostridium or salmonella

70459 PATHOGENIC  
29753 CLOSTRIDIUM  
53849 SALMONELLA

L18 148594 PATHOGENIC OR CLOSTRIDIUM OR SALMONELLA

=> s 117 and 118  
L19 9330 L17 AND L18

=> s 16 and 119  
L20 5 L6 AND L19

=> d 120 1-5 ti abs bib

L20 ANSWER 1 OF 5 HCPLUS COPYRIGHT 2009 ACS on STN  
TI Dietary fiber formulation and method of administration  
AB A dietary fiber formulation may comprise partially hydrolyzed  
guar gum (PHGG) and fructooligosaccharides (FOS), wherein the  
dietary fiber formulation exhibits a prebiotic potential greater than a  
prebiotic potential of PHGG and FOS individually. Thus, after  
administration, a PHGG/FOS blend has a lengthened fermentation time in the  
intestinal tract and produces a greater variety of short-chain  
fatty acids (acetate, propionate, butyrate) than would either fiber  
individually.

AN 2007:482861 HCPLUS <>LOGINID::20091214>>

DN 146:440734

TI Dietary fiber formulation and method of administration

IN Troup, John P.; Falk, Anne L.

PA Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

SO PCT Int. Appl., 32pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007050656	A2	20070503	WO 2006-US41568	20061023
	WO 2007050656	A3	20070712		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MM, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	AU 2006306241	A1	20070503	AU 2006-306241	20061023
	CA 2626398	A1	20070503	CA 2006-2626398	20061023
	EP 1940243	A2	20080709	EP 2006-826605	20061023
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2009511506	T	20090319	JP 2008-534794	20061023
	IN 2008DN02528	A	20080725	IN 2008-DN2528	20080326
	CN 101291597	A	20081022	CN 2006-80039184	20080421
	MX 2008005253	A	20080507	MX 2008-5253	20080423
PRAI	US 2005-729767P	P	20051024		
	US 2005-742124P	P	20051202		
	WO 2006-US41568	W	20061023		

L20 ANSWER 2 OF 5 HCPLUS COPYRIGHT 2009 ACS on STN

TI Physiological functions of partially hydrolyzed guar

gum

AB A review. Partially hydrolyzed guar gum (PHGG) has a number of properties associated with dietary fiber. PHGG ingestion results in not only an increase in defecating frequency and softer stools in persons with constipation but also significantly improvement of diarrhea in patient with gastrointestinal intolerance. The lowering of fecal pH by intake of PHGG resulted in the growth of *Lactobacillus* spp. and *Bifidobacterium* spp., intestinal flora good for human health. Improvement of balance of intestinal microflora resulted in prevention from infection and colonization of *Salmonella enteritidis*. Further the ingestion of PHGG promoted absorption of mineral and lowered serum cholesterol and triglycerides in the rat and serum cholesterol in human by improving lipid metabolism without reduction of protein utilization. In addition, PHGG significantly reduced the level of plasma glucose, and thereby improved acute postprandial plasma glucose and insulin response. All these observations suggest that the PHGG is prospective one of dietary fiber with various biol. functions.

AN 2006:1346229 HCAPLUS <>LOGINID::20091214>

DN 146:120942

TI Physiological functions of partially hydrolyzed guar gum

AU Yoon, Seon-Joo; Chu, Djong-Chi; Juneja, Lekh Raj

CS Department of Pathobiology, University of Washington, Seattle, WA, 98195, USA

SO Journal of Clinical Biochemistry and Nutrition (2006), 39(3), 134-144  
CODEN: JCBNER; ISSN: 0912-0009

PB Japanese Society of Clinical Nutrition

DT Journal; General Review

LA English

RE.CNT 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN

TI The prebiotic effects of biscuits containing partially hydrolysed guar gum and fructo-oligosaccharides - a human volunteer study

AB Prebiotics are nondigestible food ingredients that target selected groups of human colonic microflora, thus altering the microbial composition in a more beneficial way by increasing the populations of *bifidobacteria* and/or *lactobacilli*. The prebiotic potential of partially hydrolyzed guar gum (PHGG) and fructooligosaccharides (FOS) contained in biscuits was assessed in 31 humans. Fluorescent in situ hybridization with oligonucleotide probes targeting *Bacteroides*, *Bifidobacterium*, *Clostridium*, and *Lactobacillus-Enterococcus* spp. was used for bacterial identification and the total bacteria were enumerated using the 4',6-diamidino-2-phenylindole fluorescent staining. The subjects consumed daily 3 biscuits (providing 6.6 g FOS and 3.4 g PHGG) or 3 placebo biscuits in two 21-day crossover periods. The *Bifidobacteria* counts increased after ingestion of the exptl. biscuits compared with placebo. The *Bifidobacteria* counts returned to pretreatment levels within 7 days after cessation of the exptl. biscuits intake. A correlation was found between the initial fecal *Bifidobacteria* counts and the magnitude of bifidogenesis; subjects with low initial *Bifidobacteria* counts experienced the greatest increase in bifidogenesis. No changes were observed in the other bacterial groups monitored. Thus, the prebiotic nature of FOS and PHGG was maintained in the final biscuit food product as evidenced from the selective increase in *Bifidobacteria* counts.

AN 2001:756726 HCAPLUS <>LOGINID::20091214>

DN 136:36823

TI The prebiotic effects of biscuits containing partially hydrolysed guar gum and fructo-oligosaccharides - a human volunteer study

AU Tuohy, K. M.; Kolida, S.; Lustenberger, A. M.; Gibson, G. R.

CS Food Microbial Sciences Unit, School of Food Biosciences, University of Reading, Reading, RG6 6AP, UK

SO British Journal of Nutrition (2001), 86(3), 341-348  
CODEN: BJNUAV; ISSN: 0007-1145

PB CABI Publishing

DT Journal

LA English

OSC.G 75 THERE ARE 75 CAPLUS RECORDS THAT CITE THIS RECORD (75 CITINGS)

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Preventive effect of partially hydrolyzed guar gum on infection of *Salmonella enteritidis* in young and laying hens

AB The preventive effect of partially hydrolyzed guar gum (PHGG) on the colonization of *Salmonella enteritidis* (SE) in young and laying hens was investigated. The effects of feed supplemented with 0.025, 0.05, and 0.1% PHGG was examined on young hens orally infected with SE. The incidence of SE in organs was decreased, the excretion of SE into feces was increased, and the agglutinating antibody titer to SE in serum was decreased by the administration of PHGG to young hens. In particular, feed supplemented with 0.025% PHGG was the most effective. It was also shown that feed supplemented with 0.025% PHGG increased the number of *Bifidobacterium* spp. and *Lactobacillus* spp., the most numerous intestinal bacteria in the cecum of young hen. The effect of the excretion of SE via feces was also observed in an experiment using laying hens. The incidence of SE on the surface of the eggshell and in egg white and egg yolk was also decreased when the feed of laying hens was supplemented with 0.025% PHGG. These results show that the administration of feed supplemented with PHGG can prevent the colonization of SE in young and laying hens, which, in turn, could be related to improvement in the balance of intestinal microflora.

AN 2000:370967 HCAPLUS <<LOGINID:::20091214>>

DN 133:163623

TI Preventive effect of partially hydrolyzed guar gum on infection of *Salmonella enteritidis* in young and laying hens

AU Ishihara, N.; Chu, D.-C.; Akachi, S.; Juneja, L. R.

CS Nutritional Foods Division, Taiyo Kagaku Co., Ltd., Mie, 510-0844, Japan

SO Poultry Science (2000), 79(5), 689-697

CODEN: POSCAL; ISSN: 0032-5791

PB Poultry Science Association, Inc.

DT Journal

LA English

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Effects of partially hydrolyzed guar gum intake on human intestinal microflora and its metabolism

AB The growth responses of a variety of human intestinal bacteria to partially hydrolyzed guar gum (PHGG) were investigated *in vitro* and *in vivo*. In an *in vitro* experiment, PHGG moderately enhanced growth of some bacterial strains including *Bacteroides ovatus*, *Clostridium coccoides*, *C. butyricum*, and *Peptostreptococcus productus*. Effects of PHGG intake (7 g/volunteer, 3 times per day, for 14 days) on fecal microflora, bacterial metabolites, and pH were investigated using nine healthy human volunteers. The count of *Bifidobacterium* spp. and the percentage of these species in the total count increased significantly during the PHGG intake periods. Among the acid-forming bacteria, *Lactobacillus* spp. also increased. The fecal pH and fecal

bacterial metabolites such as  $\beta$ -glucuronidase activity, putrefactive products, and ammonia content were significantly decreased by PHGG intake. Two weeks after the end of PHGG intake, the bacterial counts and their biol. manifestations appeared to return to the former state.

AN 1994:578462 HCAPLUS <>LOGINID::20091214>

DN 121:178462

OREF 121:32403a, 32406a

TI Effects of partially hydrolyzed guar gum intake on human intestinal microflora and its metabolism

AU Okubo, Tsutomu; Ishihara, Noriyuki; Takahashi, Hidehisa; Fujisawa, Tomohiko; Kim, Mujo; Yamamoto, Takehiko; Mitsuoka, Tomotari

CS Cent. Res. Lab., Taiyo Kagaku Co., Ltd., Yokkaichi, 510, Japan

SO Bioscience, Biotechnology, and Biochemistry (1994), 58(8), 1364-9

CODEN: BBBIEJ; ISSN: 0916-8451

DT Journal

LA English

OSC.G 42 THERE ARE 42 CAPLUS RECORDS THAT CITE THIS RECORD (42 CITINGS)